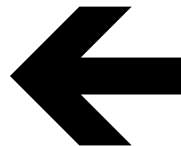**Supplement material**

<u>**Appendix 1**</u>

<u>**Task 1: Choice reaction:**</u> (a simple test using arrows).

1. You will be shown a series of images of arrows pointing either to the left or the right.
2. You will be asked to make a judgement on whether the arrow is pointing to the left or right.
3. Pressing the **'V'** key signals that the arrow is pointing to the left. Pressing the '**N**' key signals that the arrow is pointing to the right.
4. Use the fingers that are most comfortable to press the keys. You can use one or both hands.
5. After you click the '**Start Test'** button, you will be prompted to press '**V**' when an arrow pointing to the left is displayed, you will then be prompted to press '**N**' when an arrow pointing to the right is displayed. After pressing '**N**' the test will start immediately.
6. Make your left/right judgements for all images. Try and make a judgement as quickly as possible. The images will be displayed until a judgement is made, to a maximum of 15 seconds.
7. There are 40 images.

V = Left   **N=Right**

Task 2: Shoulder recognition:

1. You will be shown a series of images of shoulders that are either left or right.
2. You will be asked to make a judgement on whether it is a left shoulder or right shoulder. Pressing the '**V**' key signals that it is a left shoulder. Pressing the '**N**' key signals that it is a right shoulder.
3. Use the fingers that are most comfortable to press the keys. You can use one or both hands.
4. After you click the '**Start Test**' button, you will be prompted to press '**V**' when a left shoulder image is displayed, you will then be prompted to press '**N**' when a right shoulder image is displayed. After pressing '**N**' the test will start immediately.
5. Make your left/right judgements for all images. Try and make a judgement as quickly as possible. The images will be displayed until a judgement is made, to a maximum of 15 seconds.
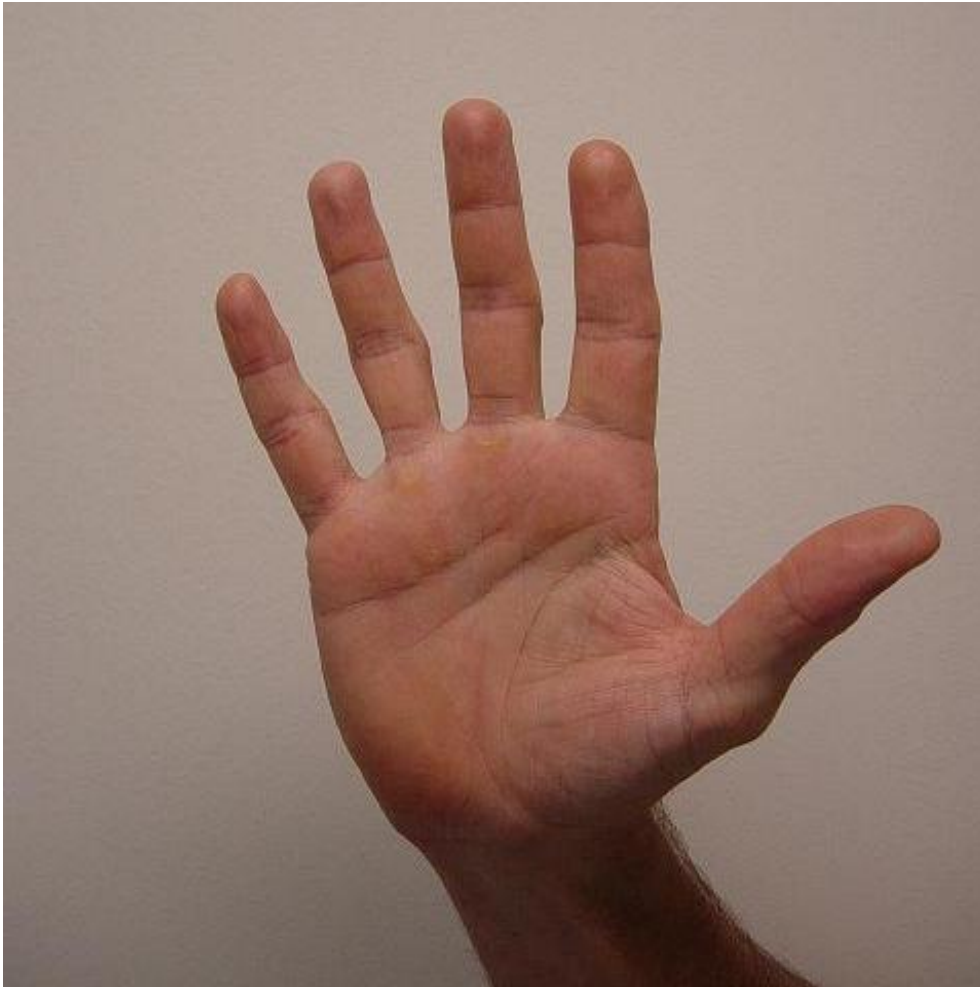6. There are 40 images.

V = Left   **N=Right**

Task 3: Hand recognition:

1. You will be shown a series of images of hands that are either left or right.
2. You will be asked to make a judgement on whether it is a left hand or right hand. Pressing the '**V**' key signals that it is a left hand. Pressing the '**N**' key signals that it is a right hand.
3. Use the fingers that are most comfortable to press the keys. You can use one or both hands.
4. After you click the '**Start Test**' button, you will be prompted to press '**V**' when a left hand image is displayed, you will then be prompted to press '**N**' when a right hand image is displayed. After pressing '**N**' the test will start immediately.

5. Make your left/right judgements for all images. Try and make a judgement as quickly as possible. The images will be displayed until a judgement is made, to a maximum of 15 seconds.
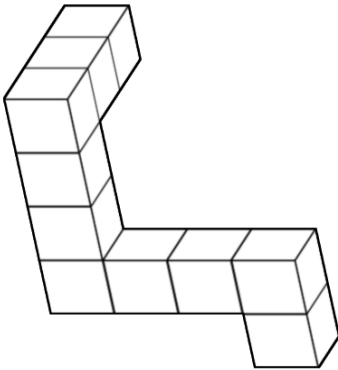6. There are 40 images.

V = Left   **N=Right**
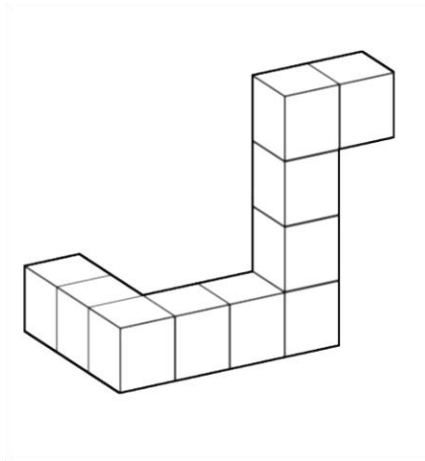

Task 4: Object rotation:

1. You will be shown a pair of 3-D objects that are either the same or different. The images may be rotated.
2. You will be asked to make a judgement on whether they are the same images or not. Ignore rotational differences when making your judgements. Pressing the '**V**' key signals that the images are the same and pressing the '**N**' key signals that they are different.

3. Use the fingers that are most comfortable to press the keys. You can use one or both hands.
4. After you click the '**Start Test**' button, you will be prompted to press '**V**' when images that are the same are displayed, you will then be prompted to press '**N**' when images that are different are displayed. After pressing '**N**' the test will start immediately.
5. Make your judgements. Try and make an answer for all images as quickly as possible. The images will be displayed for 15 seconds.
6. There are 32 pairs of images.

V = Same   **N = Different**